



VF-45™ Duplex Fiber Optic Interconnect



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Features

- Plug to socket design
- RJ-45 style latch
- High density duplex interconnect (half the size of the duplex SC)
- Tested to TIA and IEC performance specifications
- V-groove alignment, with injection molded parts (no expensive ferrules, sleeves, or other precision components)
- 3M Tech-Support at 1-800-426-8688
- 3-piece, snap together assembly, socket termination

Benefits

- Low cost
- Ease of use, familiarity
- Inexpensive
- Reliable
- Cost-effective
- Technical support available
- Ease of installation, low labor cost

VF-45™ Duplex Fiber Optic Interconnect

Material

Connector

Boot

Fiber

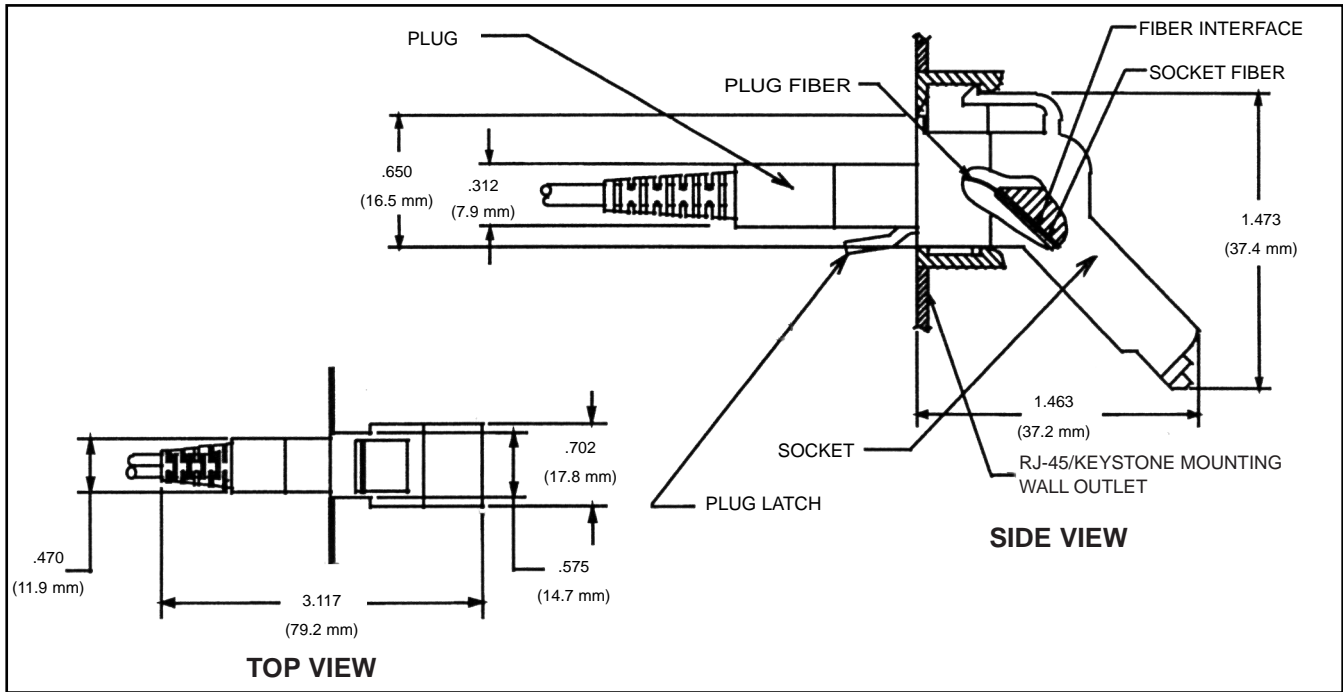
Specification

Engineering Thermoplastic UL-94 VO

Thermoplastic Elastomer

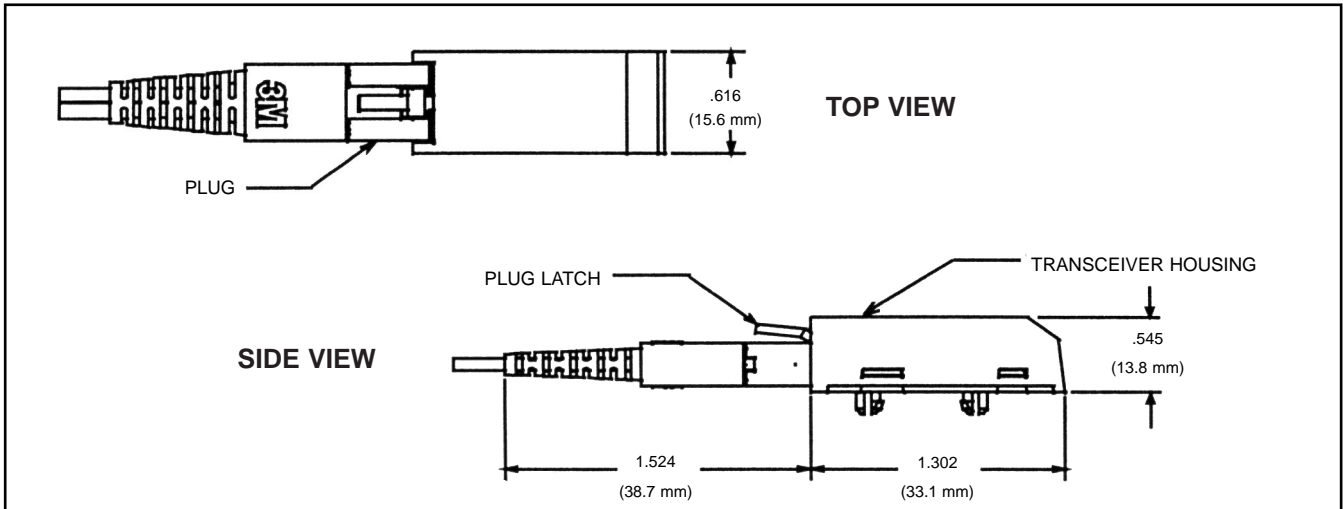
62.5 μm multimode

VF-45™ Interconnect - Plug and Socket



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VF-45™ Transceiver - Plug and Housing



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VF-45™ Duplex Fiber Optic Interconnect

Test	Test Condition/Requirements
Attenuation	< 0.75 dB max, 0.5 dB typical
Return loss	> 20 dB
Mating durability	500 cycles, <0.75 dB max
Strength of coupling	> 33 N, < 0.75 dB max
Cable retention	Tensile load > 66 N, Side Pull > 6.6 N, < 0.75 dB
Flex	100 Cycles, ± 90 degrees, 0.5 kg, < 0.75 dB max
Twist	10 Cycles, ± 2.5 revolutions, 15 N, < 0.75 dB max
Cold	-10°C for 96 hours, < 0.3 dB increase
Heat	+60°C for 14 days, < 0.3 dB increase
Thermal cycling	-10°C to 60°C, 5 Cycles, < 0.3 dB increase
Vibration	10 to 55 Hz, 2 hours each axis, < 0.3 dB increase

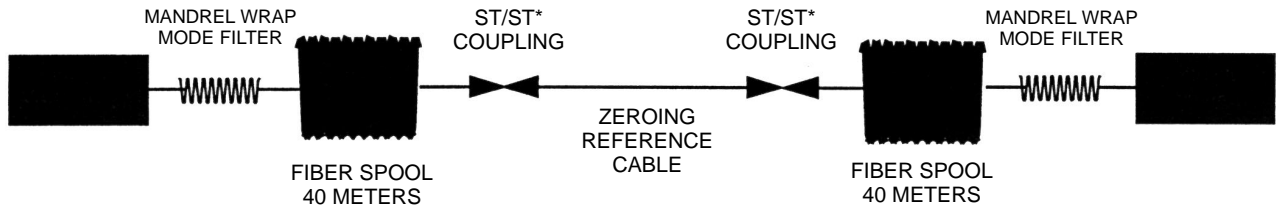
Note: Performance compliant with the above specifications

Insertion Loss Test Description

The VF-45™ Duplex Fiber Optic Interconnect can be evaluated for transmission loss by following the steps shown below.

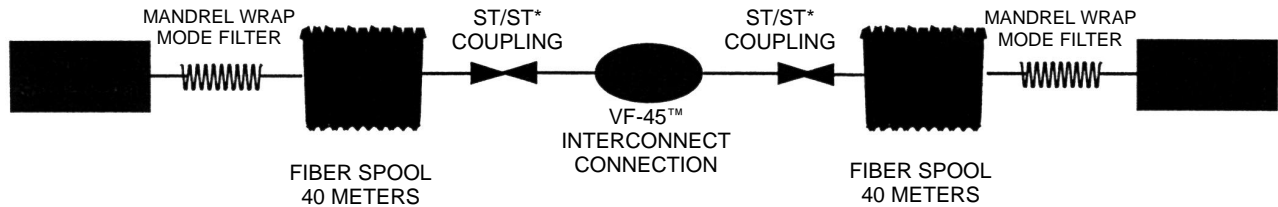
* Note: In order to help ensure a quality test loop, always clean the ST connector ends and couplings prior to mating. This may be done by using swabs and/or clean wipes soaked with reagent grade isopropyl alcohol.

Step 1: Zeroing Test Loop Configuration



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Step 2: Test Configuration



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Note:

1. This product is not released, therefore, 3M does not guarantee performance.
2. These are provided as functional pre-production samples with specific objectives of meeting customers' needs of showing real samples and pre-production information for the fiber-to-the-desk program.
3. The samples are provided for your use as described in item #2 above. The samples remain the property of 3M and shall be returnable upon request.
4. The data provided is based on pre-production samples and is not for specification purposes. Should you require production specifications, please contact 3M.

For technical assistance, call 1-800-426-8688

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